TINTIC, WHOSE PROMISE AND ACHIEUEMENTS ARE GREAT

Mines of the Camp Show Material Gain During the Year in Ore Development.

Properties Supposed to be Nearly Worked Out Open Up Reserves, Making Them Richer Than Ever Before in Their History.

The shipments from Tintic district from Jan. 1 to Dec. 1, a period of eleven month, exceed the entire output for 1902 by nearly 25,000 tons of crude ore, and recent contracts that have been made for the marketing of low-grade products of the old mines promise to show a still further increase during the coming months. Thirty-three mines sent out 5,867 carloads of cre and twenty-seven carloads of concentrates, as follows: 4.625 Day ha Washington Concentrates. ith Swansea

THE year in Tintic has been prolific of changes that have had an important bearing on the future of the district. While hearly all the working mines have shown a decided improvement underground, yet the results of these natural developments have been, in a measure, lost sight of because of the overshadowing interest that has been awakened by the market. that has been awakened by the market which has been provided for ores that heretofore, because of a low value, have been an unproductive asset. With the advent of the Bingham Consolidated Mining & Milling company on the scene conditions have changed to the advantage of the mine owner, and from old stopes whose very existence was but tradition of the vaguest sort, fortunes have been taken. Owning vast deposits of copper sulphides, the Bingham company has found the hitherto despised silicious ores of Tinic a very desirable and necessary flux in its smelting operations, and has provided a market for this class of rock that promises to last for an indefinite time. that has been awakened by the market | ble arose

this class of rock that promises to last for an indefinite time.

The Bingham company, however, was not the pioneer in this field; many months ago the United States Mining company, operating in the same sulphifle zone, purchased the famous Centennial-Eureka that it might be assured of an unlimited supply of silicious ore; at the time of the purchase of the mine for something like \$2,000,000 there was considered to be ore "in sight" was considered to be ore "in sight" to that amount. Since then the big channels have been explored to a depth of 1,600 feet, with no sign that the bottom will ever be reached, and the last estimate placed the value of the ore reserves at \$15,000,000.

Eagle & Blue Bell Sale.

The Bingham Consolidated, profiting by the success of its neighbor, has just concluded the purchase of the Eagle & Blue Bell group of claims, which is located on the same rich channel, and proposes to make of it a mine that will rival the record of the Centennial. The company secured an option on 140,000 of the 250,000 shares of the Eagle early in the spring, and since then has been developed to the 600 level, and about 4,000 tons of ore marketed. Like many other Tintic mines, the Victor has much low-grade ore in the old stopes, for which it will be able to find a profitable market in the near future. During the year some fine bodies of copper ore were mined, with every indication that the values can be depended upon to increase with depth. The Victor is known to contain the same rich fissure that has been so productive in the Star Con.'s, during the year, and is one of the established mines of that section.

Star's Good Record. Some and the purchase of the Eagle & Filte field group of claims, which is to filter field group of claims, which is to filter f

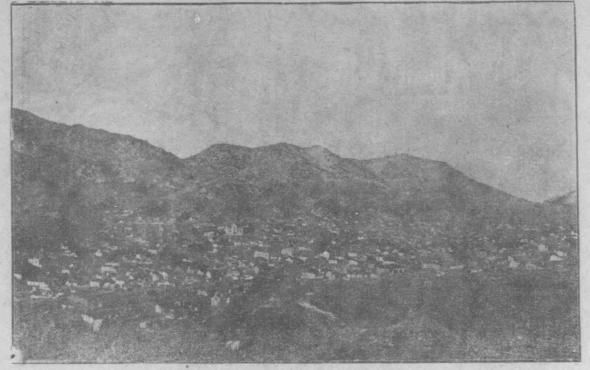
while the ore diggers were excluded from the big stopes by the smoke and gases from an underground fire that raged in a neighbor's territory, with which it is connected. Fifty thousand tons have been shipped to the smelter during the past eleven months, and the big shaft has been carried down to a depth of 1,600 feet and connected there with the ore channel. The ore is broken with machine drills, carried to the ramway over an aerial tramway and shipped without sorting, the cost of handling being reduced to the lowest possible point.

Similar methods have been employed at the Grand Central, which owns a group of very productive claims just over the hill from the Centennial, and on the same big channel. This company has a very favorable contract with the Bingham Conolidated smelter for the treatment of its ores, and is able to handle its output quite as cheaply as the Centennial-Eureka, being also equipped with a tramway to the loading station. The Central has fust cleaned up an old dump that contained between 50,000 and 60,000 tons, which netted the company a handsome sum. Montify dividends were resumed in March, and have been continuous since with the single exception of the month of October, which was passed because of some unusually heavy expenses incurred in development work. Since the resumption \$25,000 a month. penses incurred in development work. Since the resumption \$25,000 a month has been distributed, amounting to \$200,000. The total dividends paid by

royalty of \$2 per ton, which was refused.

The Mammoth is the oldest mine in the lime belt of Tintic; it has been a producer of high-grade gold, silver, lead and copper ores for thirty years, and for a long period was a regular distributor of profits. From the surface down for 2,100 feet the ore deposits have been continuous, and it is the best illustration of the possibilities of mining in the tion of the possibilities of mining in the

and the property equipped with a plant of sufficient capacity to handle 100 tons of ore every day, while furnishing at the same time the power necessary to carry on development work. The old workings of the mine are filled with a very desirable class of ore that, while scarcely within the limits of shipping rock under former conditions, can be used to good advantage at the smelter. selected specimens showed sensational returns in gold, running as high as 68 ounces. A cross-cut from wall to wall showed a breast of quartz thirty-five feet across, which shipped \$45.00 per ton. So regular were the values that stoping operations were conducted with while the ore diggers were excluded from the big stopes by the smoke and gases from an underground fire that cost.



EUREKA, THE HUB OF TINTIC DISTRICT.

the deal was made, and which is now yielding him an occasional piece of money from a leaser's work. The country is one that, in the opinion of mining men who have made a study either by attempting dividends before

mine is already self-supporting from other sources, and the indebtedness but a nominal one, it would seem that 1904 should witness some profit-taking by the shareholders.

Irrespective of this source of revenue a new ore fissure has been opened at a new ore fissure has been opened at a new ore fissure has been opened at the distance of the surface is fully 1.— work in new territory, and to that end has just finished a fifty-ton concentration which is, nevertheless, complete in every detail, and which will get the money." There is a sufficient tonnare in the mine to keep this plant

mine is already elf-aupporting from the distance to the surface is fully 1-th a nominal one. It wow more profit-taking by the shareholders.

Imine. On the 1,500-foot level a chimner of one was penctrated for thirty-five feet which carried an average of some profit-taking by the shareholders.

In respective of this source of revenue a new ore fissure has been opened at a capture of the same distance believed and the source of the same distance believed to the willing to treat that shows phenomical self-aupporting from the surface of the state of the state and some of how-garded on a new ore fissure has been opened at the mine carried solution of the Spy shaft, a wine of how-garden solution of the Spy shaft, a wine of the seeking a market. The American Smelling & Refining company treated some of this one on a surface of the state is sufficient to the surface of the state is sufficient to the surface of the state is sufficient to the surface of the state of the state is sufficient to the surface is tright in the surface of the state of the state is the surface of the state and given the distinct to the distinct to the distinct to the surface is the distance to the surface is the string by the shareholders.

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will be the future home of big we are in position to keep them up for a least a year or by any other meth-

"get the money." There is a sufficient tonnage in the mine to keep this plant in commission for a long time, and exploratory work, which is pushed without abatement, is constantly opening new fields while affording a respectable tonnage of a shipping grade.

The Godiva, the Uncle Sam's closest neighbor on the north, and the Nestor of the Hill has been idle all year, but the padlock will be knocked off the doors within a short time, and the old scenes of activity will be renewed.

scenes of activity will be renewed. Like the others, in its cavernous depths are many thousands of tons of milling ores that are to be converted into money when the new campaign has been inaugurated.

Tetro Now a Mine.

West of the Godiva, and adjoining it, is a property that is an object lesson in mining in the lime country of this district; after a struggle of a dozen years, during which at many times it seemed certain the goal had been reached, the Tetro in the month of August broke into a big ore-laden fissure, breaking due west into its own territory, that promises to be the making of the mine. Already it has passed the transition period, has crystallized from a prospect that has tantalized its many shareholders through a long period of shareholders through a long period of assessments into a mine that can be depended to enter the list of dividend-payers. With all bills paid, the first of the month found the company with over \$10,000 in the treasury, and a body of high-grade silver-lead ore that shows no ton no bottom age side walls. The Electric power, furnished by the Telluride Power company, is used in hoisting from the level 200 feet below the tunnel, where the ore was first opened, and a compressor plant furnishes power for the drills. The ore body has been penetrated for seventy-five feet west and measures thirty-five feet across. In point of size and value, it is one of the best silver-lead deposits of Godiva hill.

Permanent Market for Low Grade Ores Has Marked Effect on District's Prosperity.

Silicious Product of the Camp in Insistent and Lasting Demand to Assist in the Treatment of the Copper Sulphides of Bingham.

of low-grade await the miner's pick, containing a princely fortune that, containing a princely fortune that, way into the the fature, will find its way into the the fature, will find its way into the the fature, will find its way into the the fature. Will find its way into the content of the fature, will find its way into the content of the content

REVIVAL OF PIONEER SAMPLER

industry of Utah is the revival of the mixing of ore than the process of ri old Ploneer Sampler at Sandy, south filing, or split shoveling, frequently use of Salt Lake, and in the peighbarhood. The quartering is continued until the of the great smelter in the valley.

These operations begun in September last, under the management and ow-Excepting the Centennial-Eureka, with three times its tonnage, there is not a mine in Tintic district, in all probability, that has earned more money during the past year than the Gemini, Although working but a small force, and until recently but one shift, the mine has produced during eleven months, from Jan. F to Dec. 1, 15,001 tons of silver-lead ore, of an approxiimprovements included extensive con-crete work in placing a hopper and crusher below the level of the track in which the chief difficulty was to in which the chief difficulty was to prevent a seepage of water, which is quite abundant during the irrigation season, and the installation of a new automatic sampler, invented by Mr. Jensen several years ago, the work of which has been highly satisfactory. The original sampler had a floor, or hand, sampling capacity of 200 tons per day and to this has been added a 300 ton automatic sampler, making two distinct mills with a combined capacity of 500 tons per day.

Method of Treatment.

From the hopper, which holds sixty tons, the ore in the automatic sampler, passes to a crusher which reduces it to 2½ inches and thence by clevator to the first sampler in the upper part of the bulk, which is crushed to three-fourths of an inch. while the four-fifths, or the reject, passes through a chute directly to the car. The one-fifth now research through another sampler, which sometiments of the patronage of its old constanted and the tonnage when other kinds can not be secured.

The work of this sampler has been of such a satisfactory nature to its patrons that they have constantly increased the number and the tonnage has steadily grown from week to week. Prompt attention and strict supervision is given to every shipment sent to the Pioneer company, which solicits a continuance of the patronage of its old customers, and invites new opers in face. passes through another sampler which saves one-fifth of this and crushes it to one-half inch. This process is again repeated, the reject being conveyed to the car. The sample is pext coned and

no angies, no corners to clog or lodge the damp ore. The entire mill can be cleaned in a few minutes between runs of different ores, a preventive against inferior ores. The fraction desired to be separated contains all grades of sizes in the material being sampled. It

Mill Has Ample Trackage.

The mill is provided with trackage from the San Pedro. Los Angeles & Salt Lake, the Oregon Short Line and the Rio Grande Western railways. onsequently consignments can be re ceived from any part of the country for either of the local smelters or for eastern markets.

The chief advantages of the lowering of the crusher below track level is that

ore can be taken from hopper or self-dumping cars, as even as from any other kinds of cars in use by the railroads. This is of especial advantage to shippers for the reason that they can frequently obtain coal ears with auto-matic dump when other kinds can not

ALL HALLOWS' COLLEGE.

The onward march of All Hallows college, its splendid popularity as an educational center, give evidence that it is nobly doing its share in building its share in building indexes the facilities which the new hall affords for basket ball and other it is nobly doing its share in building up the physical, intellectual and spirit-ual manhood of the state.

ual manhood of the state.

Within the last year its capacity for students has been doubled by the magnificent new building; beautiful in its Mrs. Abboline Barnes is the able proarchitecture and commodious in every prietress, have no counterpart in any

In manly games All Hallows is ever

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THE TETRO, WHICH BECAME A MINE DURING 1903.